

**STATE OF CALIFORNIA  
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL COAST REGION**

**DRAFT MONITORING AND REPORTING PROGRAM NO. R3-2003-035**

Last Updated: 4/28/03

**For**

**CALIFORNIA POLYTECHNIC STATE UNIVERSITY,  
SAN LUIS OBISPO COUNTY**

**OBJECTIVE AND PURPOSE OF MONITORING**

This Monitoring and Reporting Program is designed to evaluate compliance with the requirements specified by Order No. R3-2003-035 and the California Polytechnic State University, San Luis Obispo, Water Quality Management Plan for Cal Poly Land in the San Luis Obispo and Chorro Creek Watersheds (WQMP).

**ANIMAL FACILITIES MONITORING**

Animal population shall be monitored according to Table A below:

**Table A**

<b>Constituent/Parameter</b>	<b>Units</b>	<b>Type of Sample</b>	<b>Minimum Sampling and Analysis Frequency</b>
Animal Population in Confined Area	Head/AU	Count	Monthly

**ANIMAL FACILITY EFFLUENT MONITORING**

Representative samples of the effluent discharged to each disposal field shall be collected and analyzed for constituents in Table B below:

**Table B**

<b>Constituent/Parameter</b>	<b>Units</b>	<b>Type of Sample</b>	<b>Minimum Sampling and Analysis Frequency</b>
Freeboard	ft	Measure	Weekly
pH	pH units	Grab	Monthly

All samples will be accompanied by a detailed description of sampling and discharge location.

**SLUDGE/COMPOST MONITORING****Table C**

Constituent/Parameter	Units	Type of Sample	Minimum Sampling and Analysis Frequency
Quantity processed (from each facility)	Tons or yds <sup>3</sup>	Measured	Measured during removal
Moisture Content	%	Grab	Each batch
Placement location			

**GROUND WATER MONITORING**

Representative samples of ground water shall be collected from representative wells located upgradient and downgradient of the discharge location, drawing water from the first available groundwater and analyzed for the specified constituents.

**Table D**

Parameter	Units	Type of Sample	Minimum Sampling and Analysis Frequency
Depth to Groundwater	ft.	Measured	Semi-Annually
pH	pH units	Grab	Semi-Annually
Total Dissolved Solids	mg/l	Grab	Semi-Annual/Monthly*
Sodium	mg/l	Grab	Semi-Annual/Monthly*
Chloride	mg/l	Grab	Semi-Annual/Monthly*
Nitrate (as N)	mg/l	Grab	Semi-Annual/Monthly*

\*Once a representative monitoring network has been identified (January 1, 2004), monitoring of these constituents will increase to monthly.

**Table E**  
**Existing Groundwater Wells**

Well No.	Cal Poly Designation	Location Description (Refer to Attachment B)
1	Mid-gradient Well	Southern part of field C 47B adjacent to Mount Bishop Road.
3	Up-gradient Well	Adjacent property near railroad tracks, westside.
4	Down-gradient Well	Developed in 1999. Southwest corner of field C 29 near Stenner and Brizzolara Creek.

-By January 1, 2004, a representative well network will be established to more accurately assess the impacts of campus waste disposal practices.

**DISPOSAL AREA MONITORING**

The spray disposal area will be inspected Daily (when irrigation/disposal is occurring) to assure BMPs are in place and functioning and that runoff and/or ponding do not occur. Particular attention will be paid to any liquids flowing from disposal spray fields, retention ponds, waste storage sites, etc., and to verify that spray irrigation is limited to those sites identified for wastewater disposal.

A log must be kept indicating spray area conditions, observations, problems noted, and corrective actions taken. A

summary of the log shall be included with each month's monitoring reports.

### POND SOLIDS AND COMPOST MONITORING

All solids disposal and reuse shall be consistent with an Executive Officer approved plan for its disposal and reuse. The following information shall be submitted with the Annual Report:

- 1) Annual sludge production in dry tons and percent solids.
- 2) Annual compost production in dry tons.
- 3) Map detailing the location(s) of any solids placed throughout the monitoring period.

**Table C**  
Solids Constituent Analysis

Constituent/Parameter	Units	Type of Sample	Minimum Sampling and Analysis Frequency
Quantity	Tons or yds <sup>3</sup>	Measured	Measured during removal
Moisture Content	%	Grab	Each batch
Total Kjeldahl Nitrogen	mg/kg	Grab	Each batch
Ammonia (as N)	mg/kg	Grab	Each batch
Nitrate (as N)	mg/l	Grab	Each batch
Total Phosphorous	mg/l	Grab	Each batch

- \* Total sample (including all solids and any liquid portion) to be analyzed and results reported as mg/kg or µg/kg, as appropriate, based on the dry weight of the sample.

### GENERAL REPORTING

Monitoring reports shall include:

1. All data required by this monitoring program for the preceding monitoring period.
2. A discussion of any non-compliance issues and corrective actions taken. All reports required in this monitoring and reporting program are required pursuant to Water Code § 13267.
3. Results of site inspections carried out during the reporting period. At a minimum this should include:
  - a. Observations of the major creeks and tributaries throughout campus
  - b. Results of any projects (construction, maintenance, earth moving, etc...) which could influence water quality.
  - c. Status of or activity in the quarry.
  - d. Results from inspecting on campus sewage collection and associated lift stations and pumps, including any problems or upsets encountered.
  - e. Any violations of the BMPs required by the WQMP.

**REPORTING FREQUENCY**

Quarterly monitoring reports will be submitted by the 30th day of April, July, October and January and shall include all monitoring results from the preceding three-month period.

Annual report shall be submitted by January 30th of each year and summarize activities pursuant to the WQMP, including personnel training, BMP effectiveness evaluation, and any proposed revisions to the Plan. Evaluation/discussion of the WQMP in its effectiveness at reducing and controlling impacts to water quality from campus activities should include, but not be limited to:

- a. Problem identification
- b. Potential resolutions
- c. Proposed WQMP updates
- d. Proposed WDR updates to be considered during next Regional Board renewal

This Monitoring and Reporting Program may be revised at any time during the life of the associated Waste Discharge Requirements, as necessary, under the authority of the Executive Officer.

Ordered By \_\_\_\_\_

\_\_\_\_\_  
Date